

JAPAN

EDICT OF GOVERNMENT

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JIS S 0026 (2007) (English): Guidelines older persons and persons with disabilities -- Shape, colour, and arrangement of toilet operation equipment and appliance in public rest room

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*The citizens of a nation must
honor the laws of the land.*

Fukuzawa Yukichi

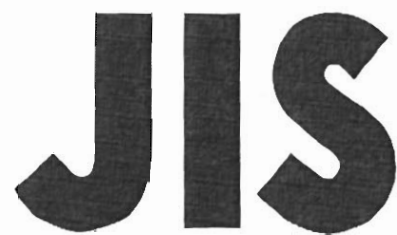
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INDUSTRIAL
STANDARD

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JIS S 0026 : 2007

**Guidelines for older persons and
persons with disabilities — Shape,
colour, and arrangement of toilet
operation equipment and appliance
in public rest room**

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Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law.

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Guidelines for older persons and persons with disabilities — Shape, colour, and arrangement of toilet operation equipment and appliance in public rest room

Introduction

As the laws concerned with making buildings and traffic facilities barrier-free have developed, it is now easier for older persons and persons with disabilities to go out.

The public rest rooms, as a result of the progressed product development, have become more convenient for users because of the new functions added to the toilet operation equipment and appliance installed within. On the other hand, the increased variations in operational buttons, that are placed at various positions, and more versions in usage procedures have lead to the problem of difficulties in distinguishing the buttons and in handling.

When using the rest room, any person is alone in the stall, therefore asking someone else where the buttons are positioned or being helped in handling is impossible, unless the person is under constant aid of a care worker. This is not a problem limited to persons with disabilities but shared by older persons as well.

This Japanese Industrial Standard aims to resolve the problems that can exist when older persons and persons with disabilities use the public rest rooms.

1 Scope

This Standard specifies the shapes and colours of the toilet operation equipment and appliance (the toilet stool cleaning button and calling button) provided on the sidewall next to the toilet stool and the positions of the said operation equipment and appliance and the paper roller, when either or both the toilet stool cleaning button and calling button is/are installed, in public rest rooms (general rest rooms and multi-function rest rooms) that are available to the general public in places such as railway stations, parks, public halls, hospitals, department stores and offices.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute the provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS P 4501 *Toilet tissue papers*

JIS S 0031 *Guidelines for the elderly and people with disabilities — Visual signs and displays — Specification of age-related relative luminance and its use in assessment of light*

JIS S 0033 *Guidelines for the elderly and people with disabilities — Visual signs and displays — A method for colour combinations based on categories of fundamental colours as a function of age*

3 Terms and definitions

For the purpose of this Standard, the following terms and definitions apply.

3.1 general rest room

a private rest room of which the installed toilet stool is not specially designed with considerations for the wheel chair users

3.2 multi-function rest room

a private room of larger space designed with considerations for wheel chair users and baby or infant carriers

3.3 toilet operation equipment and appliance

toilet stool cleaning button and calling button

3.4 toilet stool cleaning button

push-button type switch of the toilet stool cleaning equipment

3.5 calling button

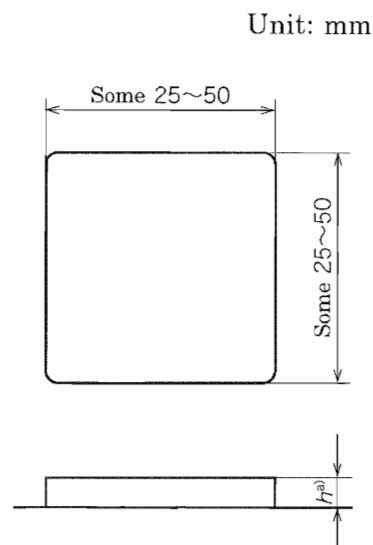
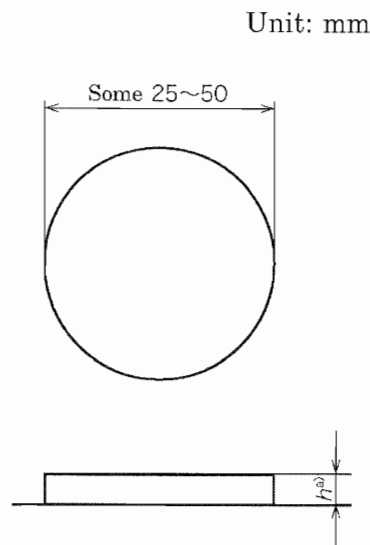
push-button type switch for sending information

3.6 paper roller

a holder to house the toilet tissue paper specified in **JIS P 4501**

4 Shape of toilet operation equipment and appliance

The shape of the toilet stool cleaning button shall be circular (○). The calling button shall be of the shape discernible from the toilet stool cleaning button [for example, square (□)] or triangle (△). The operation equipment and appliance shall be large enough to push by the palm and the back of the hand as well as by fingers and the examples are shown in figures 1 and 2.



Note ^{a)} The button should be protruded from the surrounding surface so as to be tactile to the persons with visual disabilities.

Figure 1 Example of toilet stool cleaning button

Figure 2 Example of calling button

5 Colour and contrast of toilet operation equipment and appliance

The contrast between the colour of the operation equipment and appliance and that of the periphery shall be as follows.

NOTE : The “periphery” as referred here is not the wall surface on which the operation equipment and appliance are installed but is the part of the equipment other than the buttons.

- a) **Colour of button** The operation equipment and appliance shall have the combination of the colours easily distinguishable from one another. It is recommended to be selected from the “Combination of the colours of very high identifiability” specified in **JIS S 0033**. For example, if the toilet stool cleaning button is achromatic or of cold colour group, the calling button should be of warm colour group.
- b) **Contrast of button colour to peripheral colour** In the operation equipment and appliance, the buttons and the periphery shall be in colours that are in contrast with each other. Further, for persons with weak eyesight or older persons with yellowing visions, the brightness difference and the luminance ratio as defined in **JIS S 0031** shall be taken into consideration.

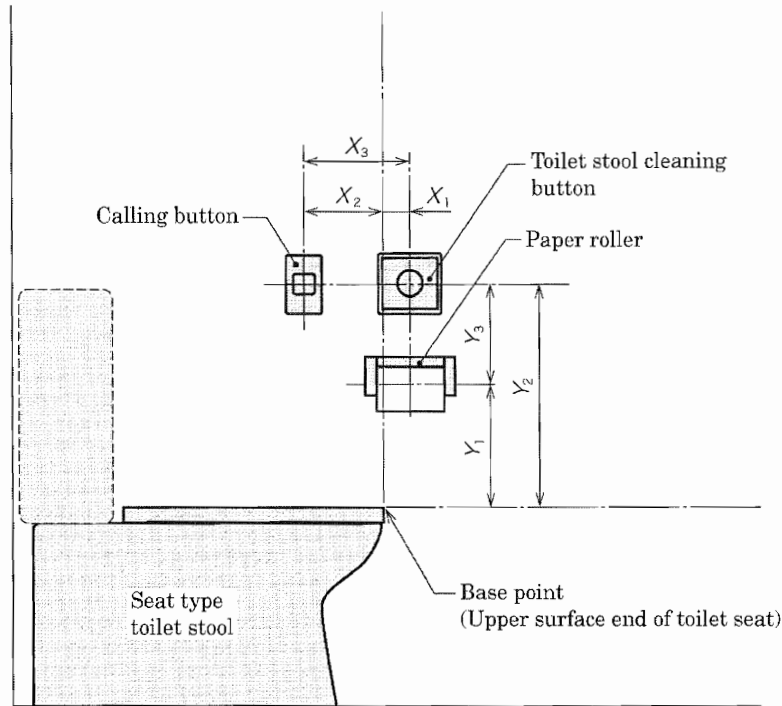
6 Arrangement of operation equipment and appliance, and paper roller

The arrangement of the operation equipment and appliance and the paper roller shall be as follows.

- a) The operation equipment and appliance and the paper roller shall be positioned so as to be easily operated by many users with possible differences in seating and stand postures. Moreover, it shall be easily identified by persons with eyesight disabilities.
- b) The operation equipment and appliance and paper roller shall be arranged together on either side of the left or right wall side of the toilet stool.
- c) The toilet stool cleaning button shall be positioned on the upper side of the paper roller and the calling button on the back side of the toilet stool and at the same height as the toilet stool cleaning button.
- d) The operation equipment and appliance and paper roller shall be positioned in accordance with the requirements in table 1.
- e) In case where a handrail, remote controller of warm water washing toilet stool, hand washer, etc. are mounted on the same wall surface as the operation equipment and appliance and paper roller, the arrangement shall be such that the use and operation of each equipment does not obstruct each other.
- f) Even in cases where the arrangement and mounting as given in table 1 is impracticable because of the installation of the equipment such as handrail, remote controller of warm water washing toilet stool and hand washer on the same wall surface as the operation equipment and appliance, the relative positions as described in c) shall be observed.
- g) The calling button should also be positioned such that the user in toppled position can easily reach and operate.

Table 1 Arrangement and mounting dimensions of operation equipment and appliance and paper roller

Unit: mm



Classification of equipment and appliance	Horizontal distance from upper surface end of toilet seat (base point)	Vertical distance from upper surface end of toilet seat (base point)	Distance between two appliances
Paper roller	X_1 : Approx. 0 to 100 frontward from toilet seat	Y_1 : Approx. 150 to 400 upward of toilet seat	—
Toilet stool cleaning button		Y_2 : Approx. 400 to 550 upward of toilet seat	Y_3 : Approx. 100 to 200 (Vertical distance from paper roller)
Calling button	X_2 : Approx. 100 to 200 backward of toilet seat		X_3 : Approx. 200 to 300 (Horizontal distance from paper roller)

Errata for JIS (English edition) are printed in *Standardization Journal*, published monthly by the Japanese Standards Association, and also provided to subscribers of JIS (English edition) in *Monthly Information*.

Errata will be provided upon request, please contact:
Standards Publishing Department, Japanese Standards Association
4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN
TEL. 03-3583-8002 FAX. 03-3583-0462